



Sequence Comparison T3



SEQID NO:7

RESULT 5
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 LOCUS HSU12569 1473 bp mRNA PRI 12-APR-1995
 DEFINITION Human mu opioid receptor variant (MOR1) mRNA, complete cds.
 ACCESSION U12569
 VERSION U12569.1 GI:607911
 KEYWORDS .
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1473)
 AUTHORS Bare, L.A., Mansson, E. and Yang, D.
 TITLE Expression of two variants of the human mu opioid receptor mRNA
 in SK-N-SH cells and human brain
 JOURNAL FEBS Lett. 354 (2), 213-216 (1994)
 MEDLINE 95046336
 REFERENCE 2 (bases 1 to 1360)
 AUTHORS Wang, J.B., Johnson, P.S., Persico, A.M., Hawkins, A.L., Griffin, C.A.
 and Uhl, G.R.
 TITLE Human mu opiate receptor. cDNA and genomic clones, pharmacologic
 characterization and chromosomal assignment
 JOURNAL FEBS Lett. 338 (2), 217-222 (1994) Jan
 MEDLINE 94139928
 REFERENCE 3 (bases 1 to 1473)
 AUTHORS Bare, L.A.
 TITLE Direct Submission
 JOURNAL Submitted (24-JUL-1994) Lance A. Bare, Ohmeda, PPD, 100 Mountain
 Avenue, Murray Hill, NJ 07974, USA
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Qy     223 CCCGGCCGTCAGTACCATGGACAGCAGCGCTGCCCCACGAACGCCAGCAATTGCACTGA 282
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RESULT 1
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Sequence Comparison SEQ ID NO: 8

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 C;Species: Homo sapiens (man)
 C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 19-May-2000
 C;Accession: I56553; A38991; S41075; S51215
 R;Mestek, A.; Hurley, J.H.; Bye, L.S.; Campbell, A.D.; Chen, Y.; Tian, M.;
 Liu, J.; Schulman, H.; Yu, L.
 J. Neurosci. 15, 2396-2406, 1995
 A;Title: The human mu opioid receptor: modulation of functional
 desensitization by calcium/calmodulin-dependent protein kinase and protein
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 A;Reference number: I56553; MUID:95198115
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 R;Wang, J.B.; Johnson, P.S.; Persico, A.M.; Hawkins, A.L.; Griffin, C.A.;
 Uhl, G.R.
 submitted to GenBank, August 1994
 A;Reference number: A38991
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 R;Wang, J.B.; Johnson, P.S.; Persico, A.M.; Hawkins, A.L.; Griffin, C.A.;
 Uhl, G.R.
 FEBS Lett. 338, 217-222, 1994
 A;Title: Human mu opiate receptor. cDNA and genomic clones, pharmacologic
 characterization and chromosomal assignment.
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 A;Accession: S41075
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R;Bare, L.A.; Mansson, E.; Yang, D.

FEBS Lett. 354, 213-216, 1994

A;Title: Expression of two variants of the human mu opioid receptor mRNA in SK-N-SH cells and human brain.

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A;Status: preliminary

A;Molecule type: mRNA

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A;Cross-references: GDB:137216; OMIM:600018

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C;Keywords: G protein-coupled receptor; glycoprotein; transmembrane protein

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SEQ ID NO:2

Sequence
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LOCUS RATMORA 1586 bp mRNA ROD 04-AUG-1993
 DEFINITION Rattus norvegicus mu opioid receptor mRNA, complete cds.
 ACCESSION L13069
 VERSION L13069.1 GI:348250
 KEYWORDS mu opioid receptor.
 SOURCE Rattus norvegicus Whole brain cDNA to mRNA.
 ORGANISM Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus.
 REFERENCE 1 (bases 1 to 1586)
 AUTHORS Chen, Y., Mestek, A., Liu, J., Hurley, J.A. and Yu, L.
 TITLE Molecular cloning and functional expression of a mu-opioid
 receptor

from rat brain
 JOURNAL Mol. Pharmacol. 44, 8-12 (1993) July
 MEDLINE 93341493

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Sequence Comparison

SEQ ID NO:4

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LOCUS RATMORA 1586 bp mRNA ROD 04-AUG-1993
DEFINITION Rattus norvegicus mu opioid receptor mRNA, complete cds.
ACCESSION L13069
VERSION L13069.1 GI:348250
KEYWORDS mu opioid receptor.
SOURCE Rattus norvegicus Whole brain cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
REFERENCE 1 (bases 1 to 1586)
AUTHORS Chen,Y., Mestek,A., Liu,J., Hurley,J.A. and Yu,L.
TITLE Molecular cloning and functional expression of a mu-opioid
receptor
from rat brain
JOURNAL Mol. Pharmacol. 44, 8-12 (1993)
MEDLINE 93341493

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ORIGIN

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Align seg 1/1 to: RATMORA from: 1 to: 1586

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184 euValLeuGlyGluProAlaGlnAsnLeuCysLeuTyrLeuArgPheHis 200
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885 TGGTACTGGGAGAACCTGCTCAAAATCTGTGTCTTTATCTTCGCTTTTCAT 934

201 HisAlaAspProHisHisHisCysValLeuArgProAspAspLeuThrTh 217
  ||||||||||||||||||||||||||||||||||||||||||||
935 CATGCCGATCCTCATCATCACTGTGTGTTACGGCCTGATGATCTTACGAC 984
```

217 rGlnGluArgSerHisAlaIleGlyLeuGlnArgLysGlyGlnGluSerA 234
 ||||||||||||||||||||||||||||||||||||||||
 985 TCAAGAGCGTTCGCATGCTATCGGGCTCCAAAGAAAAGGACAGGAATCTG 1034

 234 laGlnAspHisProAspGlyAlaGlyGlyArgGlyCysIleTyrArgLeu 250
 ||||||||||||||||||||||||||||||||||||||||
 1035 CGCAGGATCACCCGGATGGTGCTGGTGGTTCGTGGCTGTATTTATCGTCTG 1084

 251 LeuAspProHisProHisLeuArgHisHisGlnSerAlaAspHisAspSe 267
 ||||||||||||||||||||||||||||||||||||||||
 1085 CTGGACCCCCATCCACATCTACGTCATCATCAAAGCGCTGATCACGATTC 1134

 267 rArgAsnHisIleSerAspArgPheLeuAlaLeuLeuHisCysPheGlyL 284
 ||||||||||||||||||||||||||||||||||||||||
 1135 CAGAAACCACATTTTCAGACCGTTTCCTGGCACTTCTGCATTGCTTTGGGT 1184

 284 euHisGluGlnLeuProGluSerSerSerLeuArgLeuProGly 298
 ||||||||||||||||||||||||||||||||||||||||
 1185 TACACGAACAGCTGCCTGAATCCAGTTCTTTACGCCTTCCTGGA 1228

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